Software- und Organisations-Service

Product Information



Product Information

JobScheduler Use Cases



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Cross-Platform Scheduling: Processing with Agents

Use Cases for typical scheduling tasks: Cross-Platform Scheduling

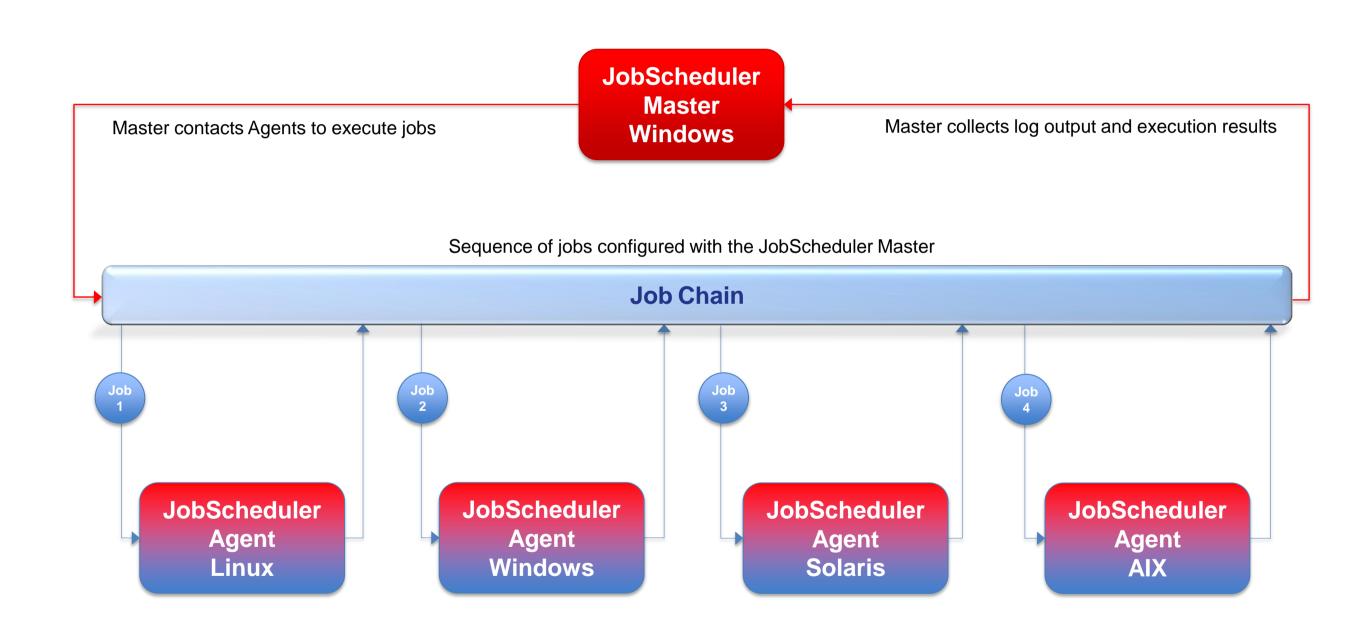
Use Case

- The customer operates servers with Windows, Linux, Solaris and AIX.
- Jobs with dependencies have to be executed on the different servers.

Solution

- A JobScheduler Master for Windows optionally executes jobs locally and orchestrates four Universal Agents.
- The job dependency is configured with the Master who contacts Agents to execute jobs.

- JobScheduler covers all required platforms.
- Job dependencies for multi-platform execution can be configured.
- Single point of configuration and operation.
- Zero configuration for Universal Agents.





Cross-Platform Scheduling: Agentless Processing

Use Cases for typical scheduling tasks: Cross-Platform Scheduling

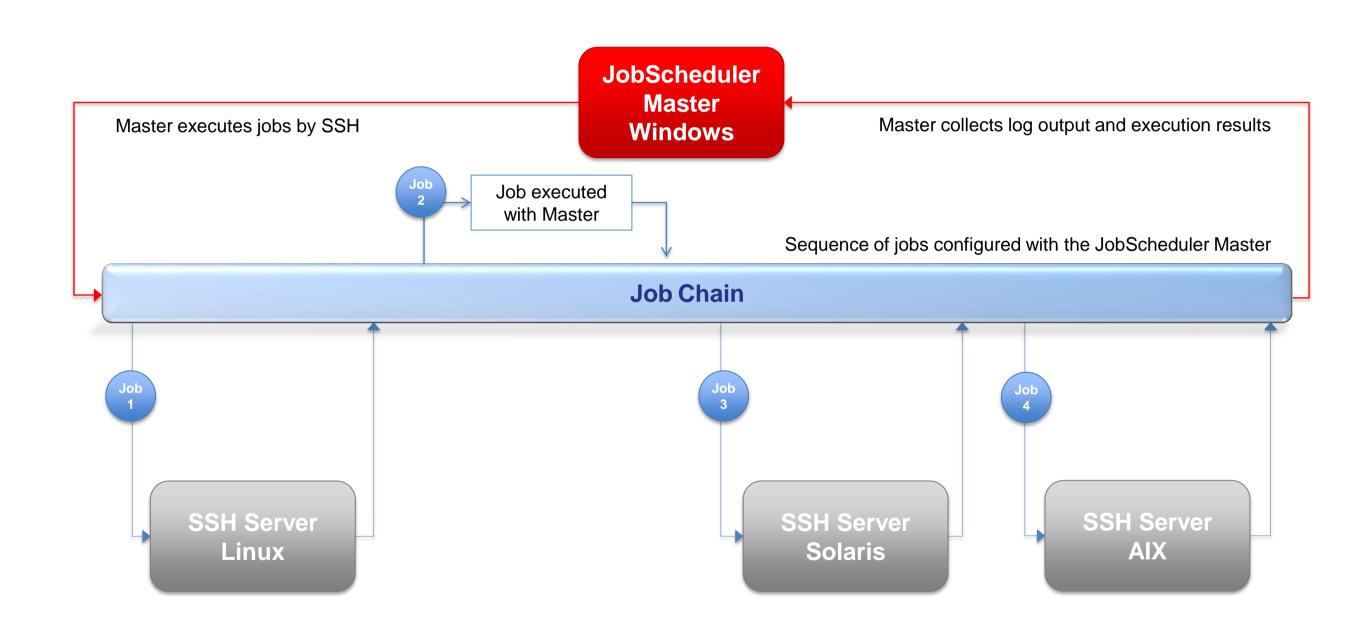
Use Case

- The customer operates servers with Windows, Linux, Solaris and AIX.
- Jobs with dependencies have to be executed on the different servers.

Solution

- A JobScheduler Master for Windows executes jobs locally and orchestrates execution on three servers by SSH.
- The job dependency is configured with the Master who contacts Agents to execute jobs.

- No software installation is required for job execution on existing SSH servers.
- Job dependencies for multi-platform execution can be configured.
- Single point of configuration and operation.





File Watching: Remote File Triggering

Use Cases for typical scheduling tasks: File Watching

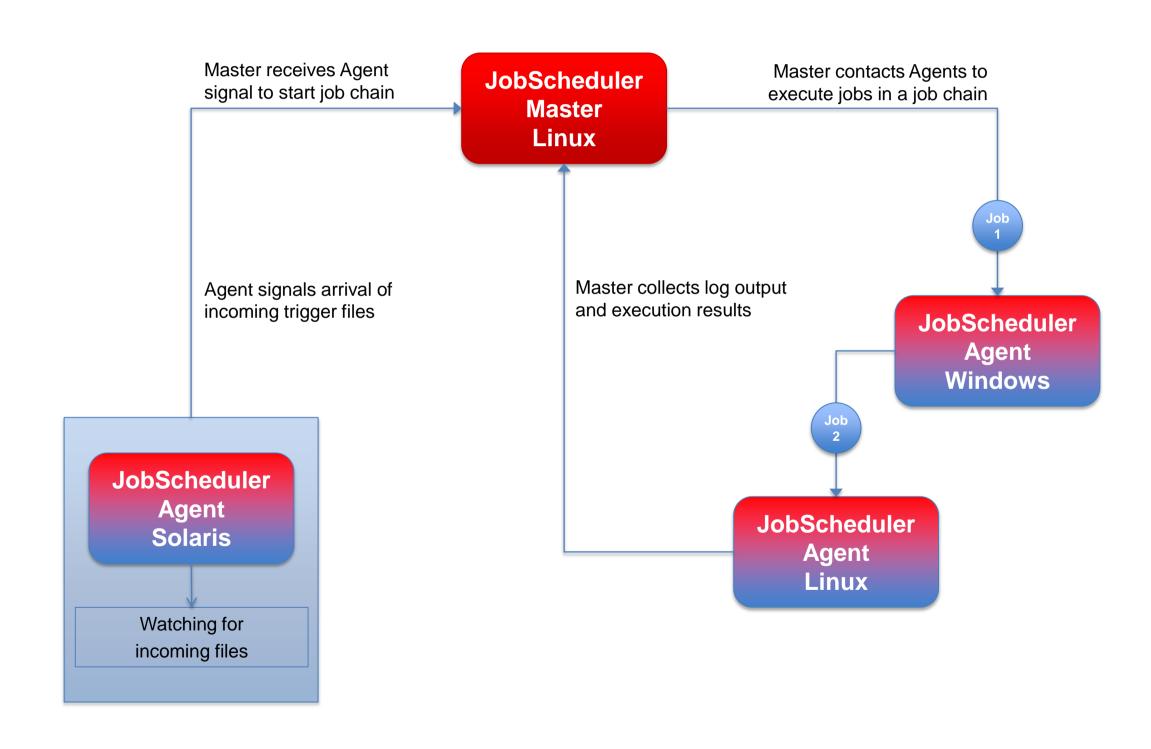
Use Case

 Files have to be watched on different platforms, e.g. on Solaris. Job starts shall be caused on Windows and Linux after arrival of a trigger file on Solaris.

Solution

- Universal Agent watches for incoming files and sends signal to the Master once a file arrives.
- The Master is configured to know which workflows are to follow.

- Remote file watching with Master and Agents is platform independent.
- All configuration for the workflows are stored on the Master, the Universal Agents execute jobs with zero configuration.
- Remote file watching can be applied to any number of platforms and servers.





File Watching: Remote File Processing

Use Cases for typical scheduling tasks: File Watching

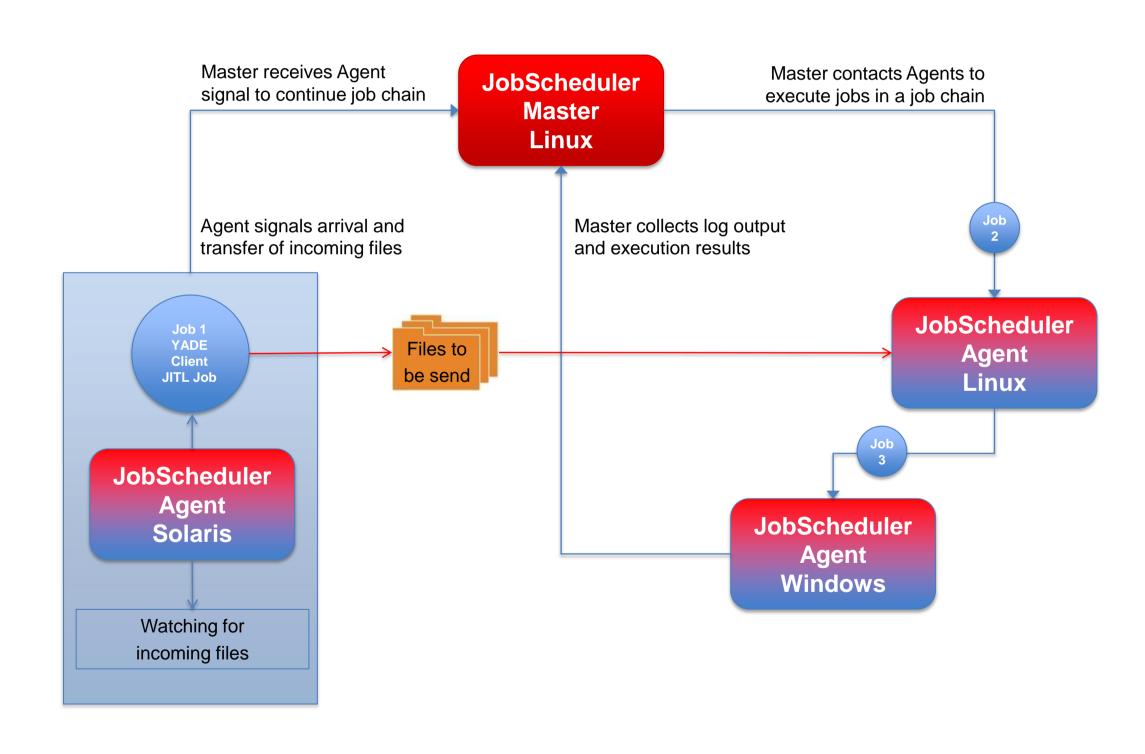
Use Case

 Files have to be watched on Solaris and sent to a Linux server. After transfer the files are processed on Linux and a successor job on Windows is executed.

Solution

- Universal Agent watches for incoming files and sends signal to the Master once a file arrives.
- The files are directly sent to a Linux server with a file transfer job on Solaris.
- The Master is configured to know which workflows are to follow.

- Remote file watching with Master and Agents is platform independent.
- Configuration for the workflows are only required on the Master, the Universal Agents execute jobs with zero configuration.





File Transfer: Server-to-Server Transfer

Use Cases for typical scheduling tasks: Server-to-Server File Transfer

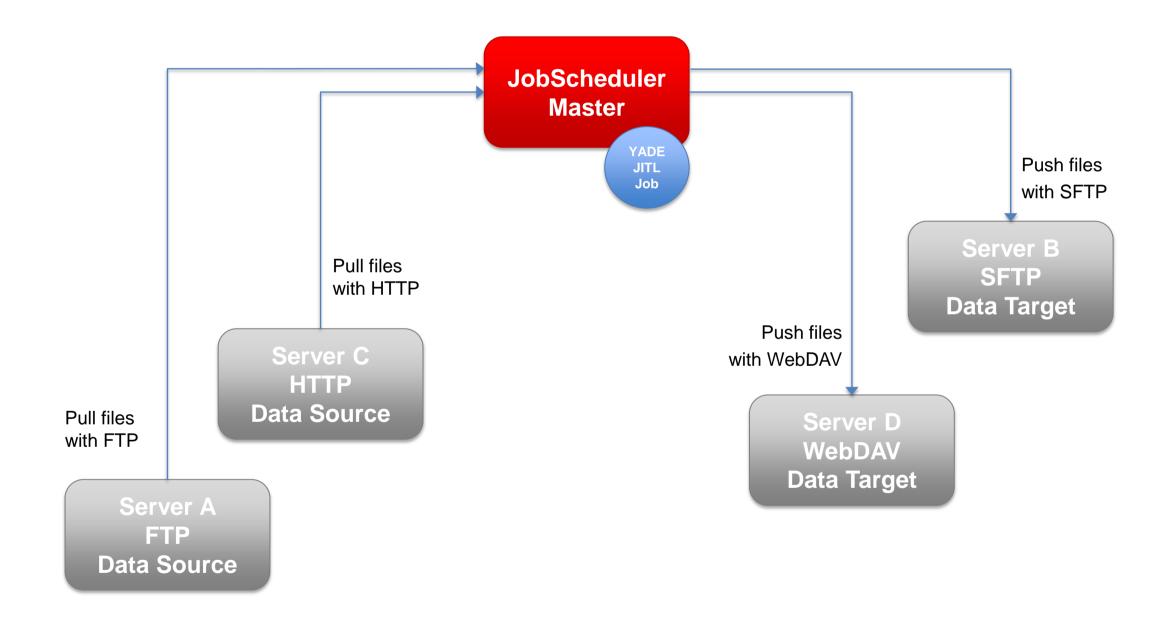
Use Case

 Files shall be transferred by using different transfer protocols for data sources and targets.

Solution

 A virtual file system approach is used by YADE. This allows to copy and move files between sources and targets with any given protocol.

- Any combination of file transfer protocols is possible, e.g. FTP, FTPS, SFTP, HTTP, WebDAV.
- No touchdown of files on JobScheduler Master.
- Transfers are performed in memory, resulting in very economical use of resources.





File Transfer: Push Files to Internet via Jump Host

Use Cases for typical scheduling tasks: File Transfer with Jump Host

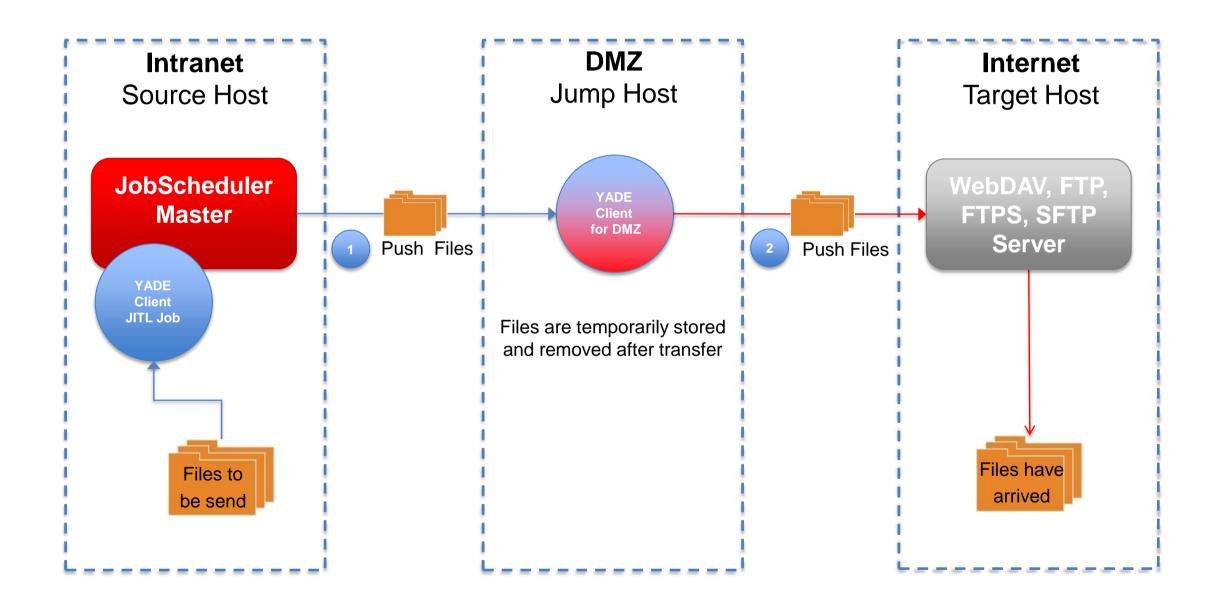
Use Case

- Servers in the intranet have no internet access.
- Connection are only allowed from the intranet to the DMZ. From the DMZ transfers to the internet are allowed.

Solution

- YADE Client in the Intranet contacts YADE for DMZ to initiate a secure transfer of files from the intranet to the internet.
- YADE Client in intranet
 sends files to YADE in
 DMZ for temporary storing
- In a final step the YADE Client in DMZ 2 pushs the files to the internet.

- Files are stored temporarily in the DMZ and are removed after transfer.
- No credential data are stored in the DMZ.
- All configuration items are stored in the intranet.





File Transfer: Pull Files from Internet via Jump Host

Use Cases for typical scheduling tasks: File Transfer with Jump Host

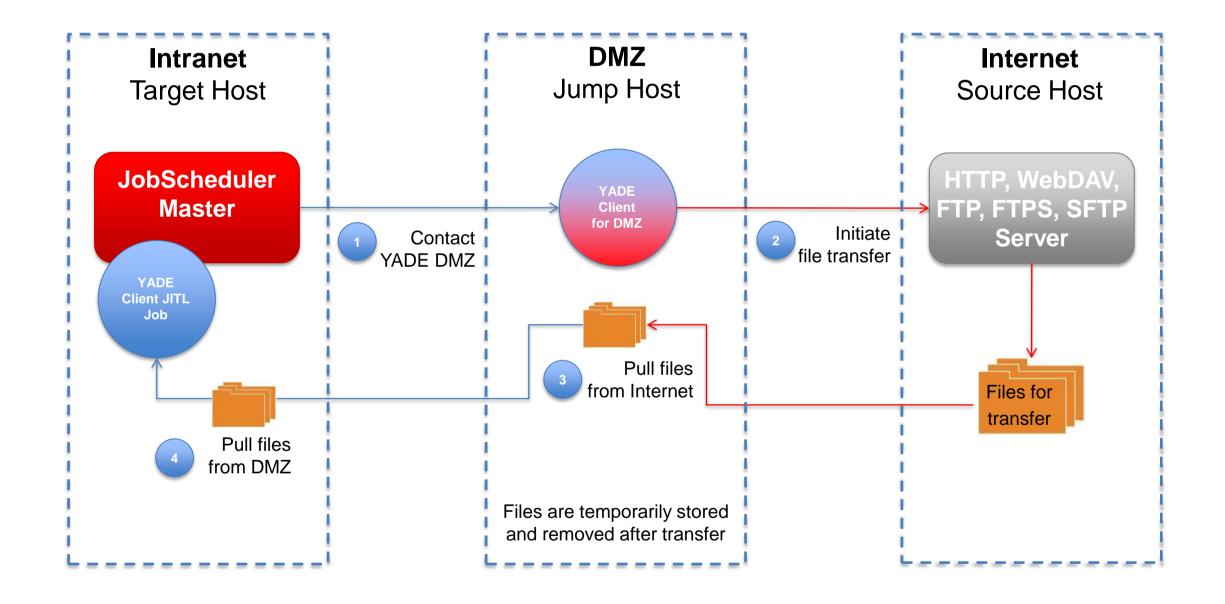
Use Case

- Servers in the intranet have no internet access.
- Connection are only allowed from the intranet to the DMZ. From the DMZ transfers to the internet are allowed.

Solution

- The host in the DMZ acts as jump host for YADE.
- YADE Client in intranet
 contacts YADE in DMZ
 start a transfer and
 pull files from the
 internet to the DMZ.
- YADE Client in intranet
 pulls the files from the
 YADE in DMZ to the final destination in the intranet.

- Files are stored temporarily in the DMZ and are removed after transfer.
- No credential data are stored in the DMZ.
- All configuration items are stored in the intranet.





File Transfer: Pull Files from DMZ in Near Real Time

Use Cases for typical scheduling tasks: File Transfer with Jump Host

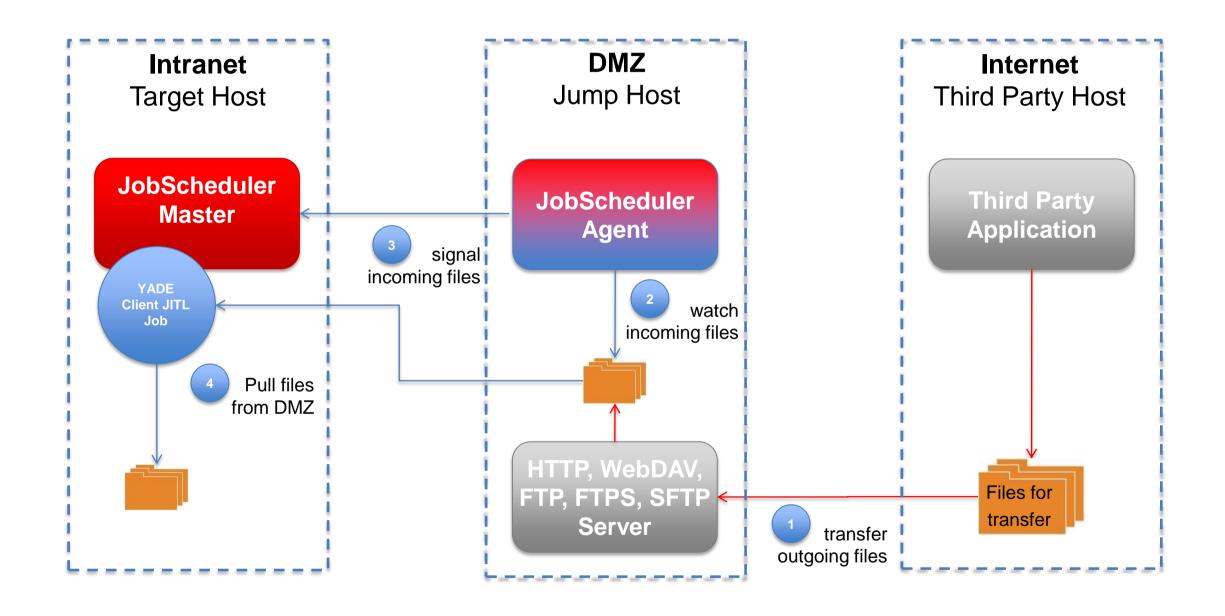
Use Case

- Third Party pushs files to DMZ server.
- Incoming files should be transferred to the intranet as soon as possible in near real time.

Solution

- Third Party transfers files to the DMZ server.
- The Universal Agent runs on DMZ and monitors incoming files.
- 3 The Universal Agent signals to the Master the arrival of incoming files.
- Master starts YADE job to transfer the files from DMZ to intranet.

- Files are moved to intranet in near real time.
- Files are stored temporarily in the DMZ and are removed after transfer.
- All configuration items are stored in the intranet.





Server Backup: Automated Backup Handling

Use Cases for typical scheduling tasks: Server Backup

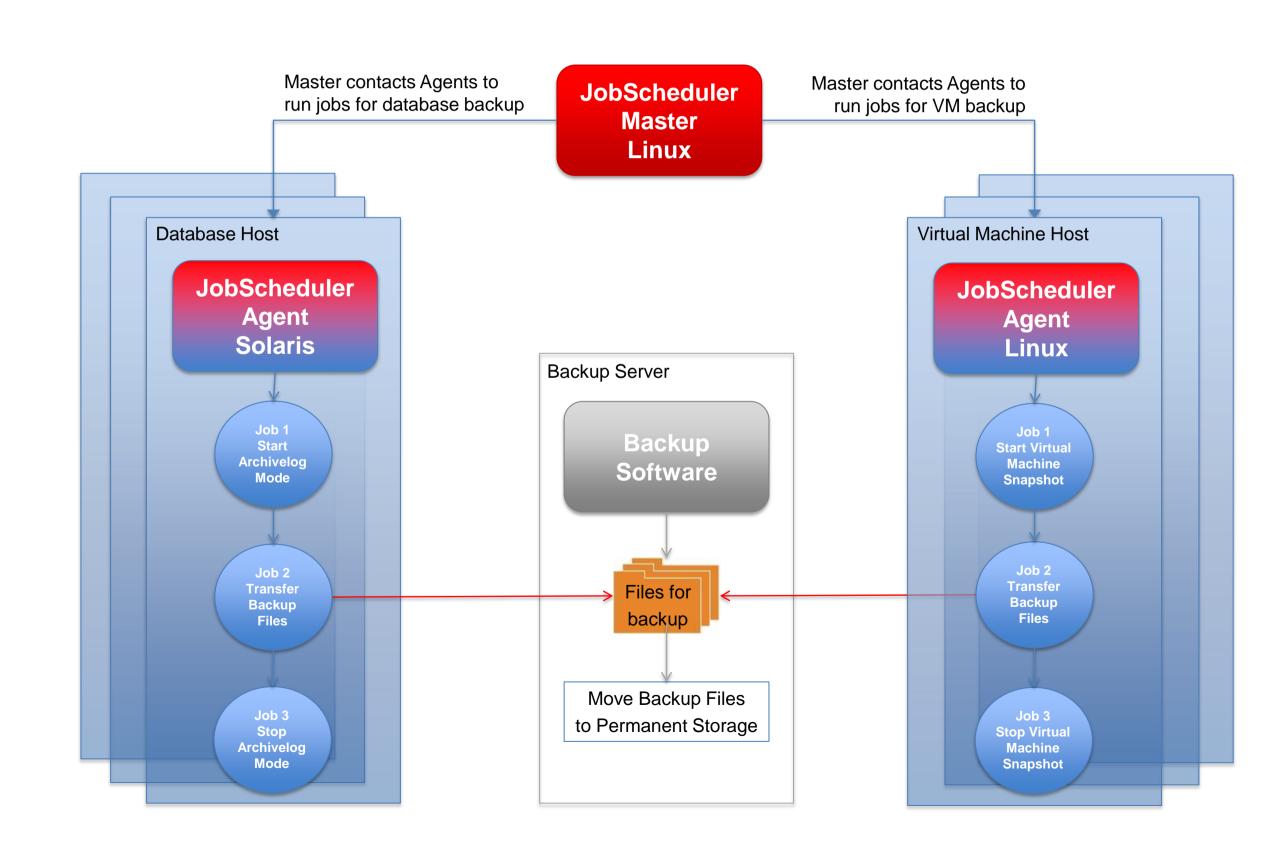
Use Case

- Backups shall be created for a number of database and virtual machine hosts.
- Backups shall be moved to a Backup Server for later permanent storage.

Solution

- Universal Agents are instructed to run job chains including pre-and post-processing for backup handling.
- The backups are directly sent to a Backup Server for later processing by some backup software.

- Individual job chains for pre- and post-processing.
- Easy Agent deployment to a large number of servers.
- Configuration for the workflows are only required on the Master, the Universal Agents execute jobs with zero configuration.



Software- und Organisations-Service

Customer Information



Questions? Comments? Feedback?

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